

6X

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/847,399	EMOTO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Jason M Perilla	2634	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed August 30, 2004.
2. ☒ The allowed claim(s) is/are claims 9, 10, 12, 13, and 15-18 renumbered respectively as claims 1-8.
3. ☒ The drawings filed on 03 May 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br/>Paper No./Mail Date <u>5/04</u></li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)</li> <li>6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date <u>20050228</u>.</li> <li>7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____.</li> </ol> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### EXAMINER'S AMENDMENT

1. Claims 9-18 are pending in the instant application.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Nils E. Pedersen (33145) on February 25, 2005.

The application has been amended as follows:

The following version of claim 9 replaces all prior versions of the claim in the application in their entirety.

9. A distributed communication device, comprising:
  - a local plant section comprising a control device operable to control a gas turbine and a data memory device operable to memorize control data of said control device;
  - a data monitoring section located remotely from said control device, said data monitoring section comprising a data management device and a monitor;
  - n communicating lines communicating said local plant section with said data monitoring section, where n is a whole number of at least 3;
  - wherein said local plant section is operable to divide the control data of said control device into n parts, to form n combined data packets each having n-1 parts of

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said n parts and to transmit said n combined data packets across respective ones of  
said n communicating lines to said data monitoring section; and

wherein said data monitoring section is operable to receive said n combined data  
packets from said n communicating lines and to reconstruct the control data of said  
control device; and

wherein said n communicating lines comprise at least artificial satellite  
communication, a telephone cable, and an internet.

Regarding claim 10, in lines 2-3, "respective said n-1 communicating lines" is  
replaced by --respective n-1 communicating lines of said n communicating lines--.

Claim 11 is CANCELED.

The following version of claim 12 replaces all prior versions of the claim in the  
application in their entirety.

12. A distributed communication device, comprising:

a local plant section at a first location ~~and~~ comprising a control device operable to  
control a gas turbine and a data memory device operable to memorize control data of  
said control device;

a data monitoring section at a second location different from said first location,  
said data monitoring section comprising a data management device and a monitor;

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at least three communicating lines communicating said local plant section with said data monitoring section;

wherein said local plant section is operable to divide the control data of said control device and to transmit the divided control data across respective said at least three communicating lines to said data monitoring section; and

wherein said data monitoring section is operable receive the divided data from said at least three communicating lines; and

wherein said n communicating lines comprise at least artificial satellite communication, a telephone cable, and an internet.

Regarding claim 13, in line 2, "said communicating lines" is replaced by –said at least three communicating lines--.

Claim 14 is CANCELLED.

The following versions of claims 15-18 replace all prior versions of the claims in the application in their entirety.

15. A distributed communication device, comprising:

a local plant section at a first location ~~and~~ comprising a control device operable to control a gas turbine and a data memory device operable to memorize control data of said control device;

a data monitoring section at a second location different from said first location, said data monitoring section comprising a data management device and a monitor;

at least three communicating lines communicating said local plant section with said data monitoring section; wherein said local plant section is operable to divide the control data of said control device into at least three portions and to transmit said at least three portions in combinations of an optional number of the at least three portions across respective said at least three communicating lines to said data monitoring section so that if data on one of said at least three communicating lines is destroyed, the control data can be recovered; and

wherein said data monitoring section is operable to receive said at least three portions from said at least three communicating lines and to reconstruct said control data of said control device even if one of said at least three portions on one of said at least three communicating lines is destroyed; and

wherein said at least three communicating lines comprise at least artificial satellite communication, a telephone cable, and an internet.

16. A distributed communication device, comprising:

a local plant section at a first location and comprising a control device operable to control a gas turbine and a data memory device operable to memorize control data of said control device;

a data monitoring section at a second location different from said first location, said data monitoring section comprising a data management device and a monitor; and

at least three communicating lines communicating said local plant section with said data monitoring section;

wherein said local plant section is operable to divide the control data of said control device into a plurality of parts corresponding to said at least three communicating lines, to combine some of said plurality of parts into respective portions for each of said at least three communicating lines and transmitting the portions across respective said at least three communicating lines; and

wherein the control data can be analyzed only if the number of said portions that are received from said at least three communicating lines is at least the total number of said portions transmitted by said local plant section minus one; and

wherein said at least three communicating lines comprise at least artificial satellite communication, a telephone cable, and an internet.

17. A transmitter of a distributed communication device, comprising;

a local plant section comprising a control device operable to control a gas turbine and a data memory device operable to memorize control data of said control device;

wherein said local plant section is operable to divide the control data of said control device into  $n$  parts, to form  $n$  combined data packets each having  $n-1$  parts of said  $n$  parts and to transmit said  $n$  combined data packets across at least three respective  $n$  communicating lines to a target point;

wherein  $n$  is at least three; and

wherein said n communicating lines comprise at least artificial satellite communication, a telephone cable, and an internet.

18. A receiver of a distributed communication device, comprising:

a data monitoring section located remotely from a control device that is operable to control a gas turbine and a data memory device operable to memorize control data of the control device, said data monitoring section comprising a data management device and a monitor;

wherein said data monitoring section is operable to receive individually transmitted and divided data which has been divided into n parts to form n combined data packets each having n-1 parts of the n parts and transmitted across at least three respective n communicating lines and to reconstruct therefrom the control data of the control device;

wherein n is at least three; and

wherein said n communicating lines comprise at least artificial satellite communication, a telephone cable, and an internet.

Claims 9, 10, 12, 13, and 15-18 are renumbered respectively as claims 1-8, and the claim dependency is renumbered accordingly.

***Allowable Subject Matter***

3. Claims 9, 10, 12, 13, and 15-18 renumbered respectively as claims 1-8 are allowed.

4. The following is an Examiner's statement of reasons for allowance:

Claims 9, 10, 12, 13, and 15-18 renumbered respectively as claims 1-8 are allowed because the prior art of record does not disclose or obviate the remote observation of a gas turbine over at least three communications lines each carrying less than the full amount of data to be observed wherein the communications lines comprise a satellite, a telephone line, and the internet. The remote observation of a gas turbine is

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following prior art of record is cited to show the current state of the art with respect to distributed communications systems.

U.S. Pat. No. 4559828 to Liszka.

U.S. Pat. No. 4536126 to Reuther.

U.S. Pat. No. 4455820 to Buckley et al.

U.S. Pat. No. 4267458 to Uram et al.

U.S. Pat. No. 4029952 to Giras et al.




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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M Perilla whose telephone number is (571) 272-3055. The examiner can normally be reached on M-F 8-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (571) 272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Jason M. Perilla  
February 28, 2005

jmp

  
**CHIEH M. FAN**  
**PRIMARY EXAMINER**